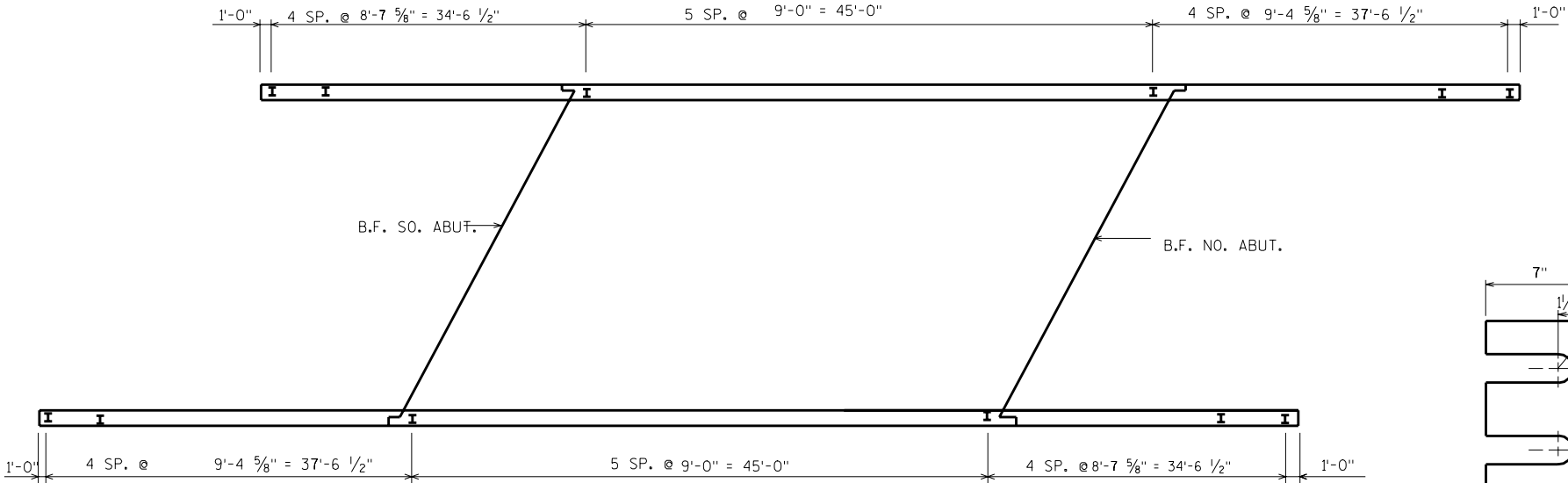
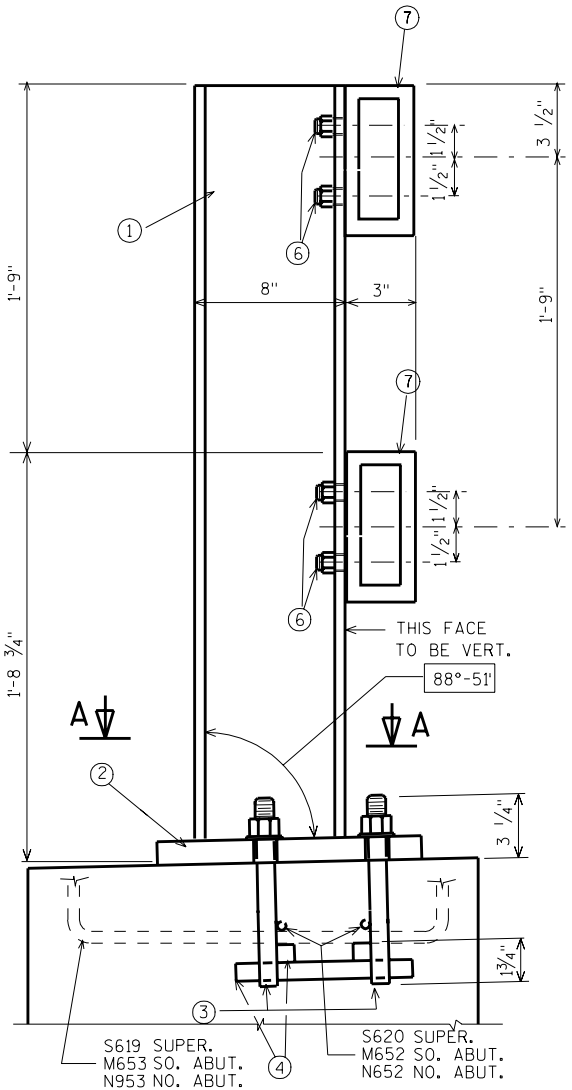
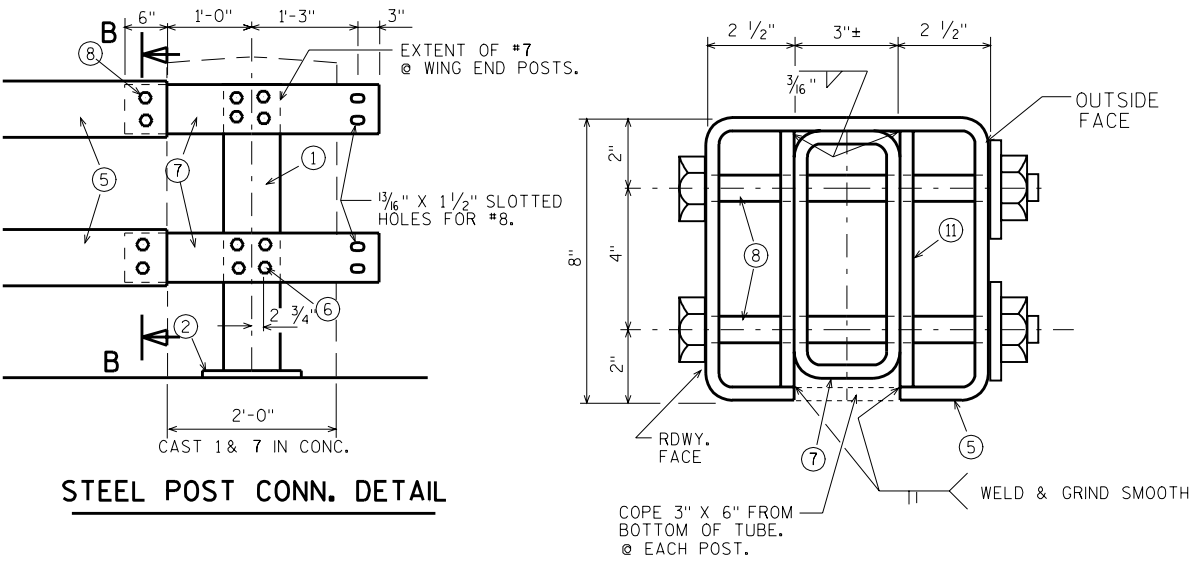


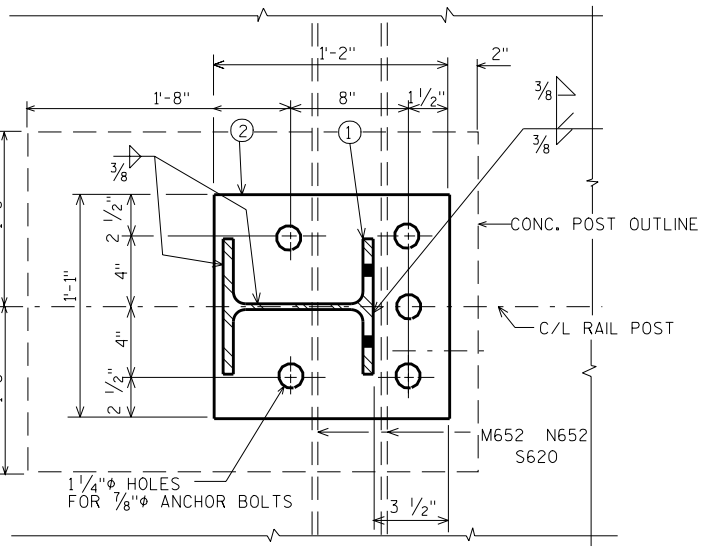
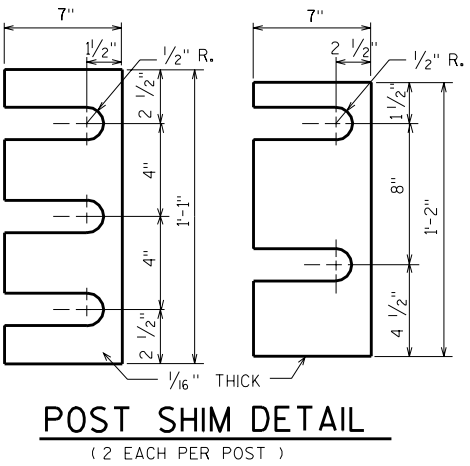
LEGEND

- ① W8X31 WITH 1/8" DIA. HOLES ON EACH SIDE OF POST FLANGE FOR STUD NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL PLATE POSTS NORMAL TO GRADE LINE.
- ② PLATE 15/8"X13"X1'-2", WITH 5 1 1/4" Φ HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- ③ A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION. ANCHOR BOLT 7/8" DIA. LONG (MIN. YIELD OF 92 K.S.I. AND ELONGATION OF 14%) WITH A325 NUT AND WASHER. 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLT BEFORE THREADING.
- ④ BAR 3/4" SQ. X 1'-0" LONG, WELD TO ANCHOR BOLT NO. 3.
- ⑤ TS 8X8X.25 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A500, GRADE B. ATTACH TO NO. 7 WITH BOLTS 8
- ⑥ 5/8" DIA. X 1 1/2" LG. SHOP WELDED STUDS, WITH HEX. NUT AND 2" WASHERS. 8 PER POST REQ'D. 4 REQ'D. AT EACH LOCATION WELD TO #7
- ⑦ TS 7X3X.375 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A500, GRADE B. ATTACH TO NO. 1 WITH STUDS. PROVIDE 1 1/6" X 1 1/2" SLOTTED HOLES FOR # 8
- ⑧ 3/4" Φ H.S. BOLTS WITH LOCKWASHERS & HEX NUTS.
- ⑨ 3/8" X 7 1/4" X 6" PLATE WELD TO # 5 AS SHOWN



GENERAL NOTES

- BID ITEM SHALL BE" TUBULAR STEEL RAILING, SPECIAL,WHICH INCLUDES ALL ITEMS SHOWN.
- POSTS BASE PLATES,NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH,STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A36 UNLESS NOTED OTHERWISE.
- STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
- CAULK EXPOSED OPENINGS BETWEEN CONCRETEPOSTS & TUBULAR RAILING.
- ALL RAILINGS, EXPOSED BOLTS & NUTS SHALL BE PAINTED BLACK PER BID ITEM "PAINTING VINYL SYSTEM".
- ALL MEMBERS INCLUDING UPPER 4" OF NO. 3 SHALL BE GALVANIZED AFTER FABRICATION.
- PRIOR TO GALVANIZING, ALL STEEL RAILING SHALL BE GIVEN A NO. 6 COMMERICAL BLAST CLEANING BY S.S.P.C. SPECIFICATIONS. BLAST CLEANING IS NOT REQUIRED FOR COLD FORMED TUBING ③ & ⑦. EXCEPT TO REMOVE WELDING SLAG & IMPERVIOUS SUBSTANCES.



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE			
DRAWN BY		PLANS CK'D.	
TUBULAR RAILING		SHEET	